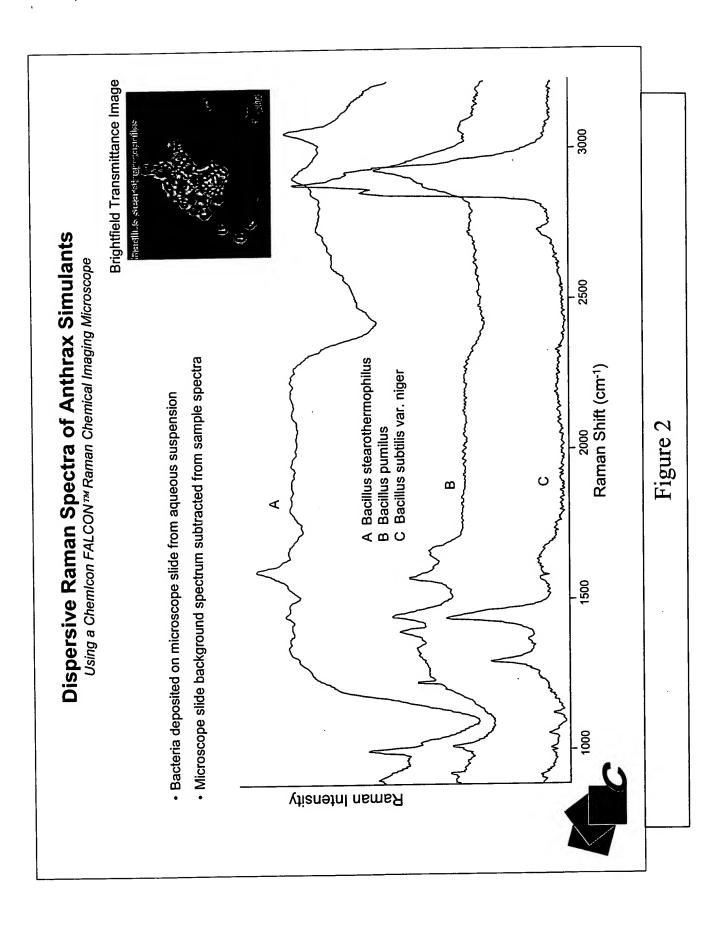
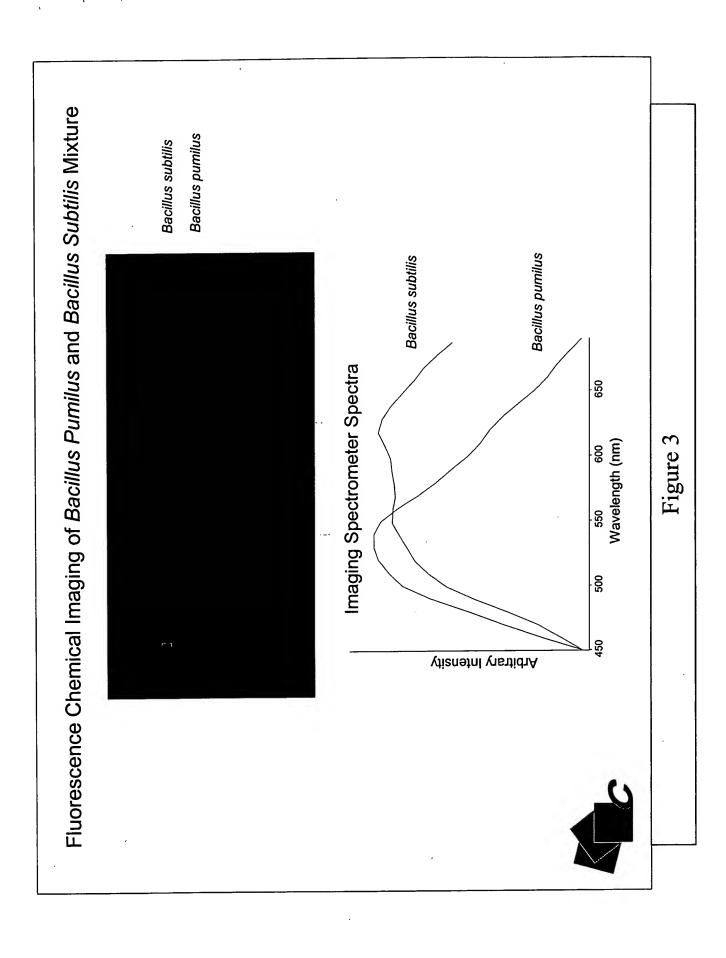
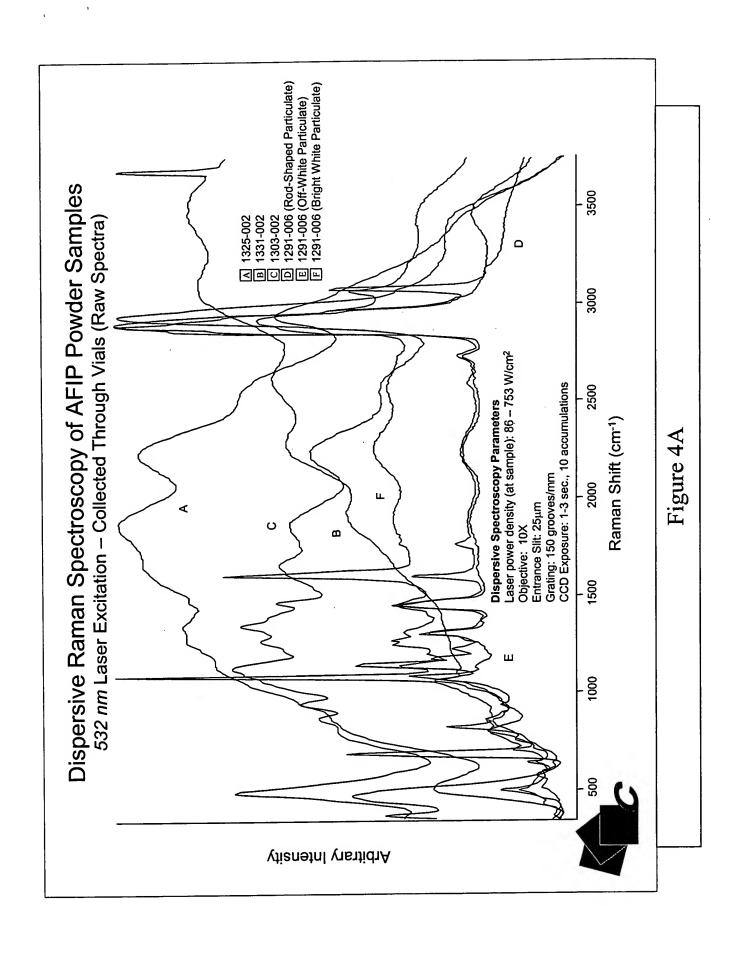
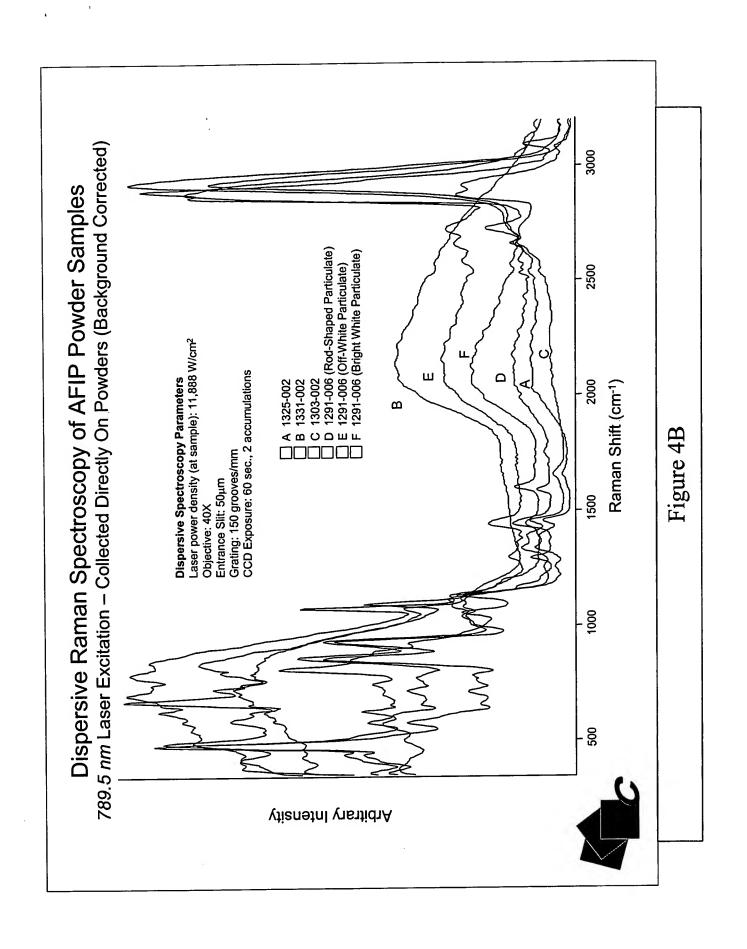


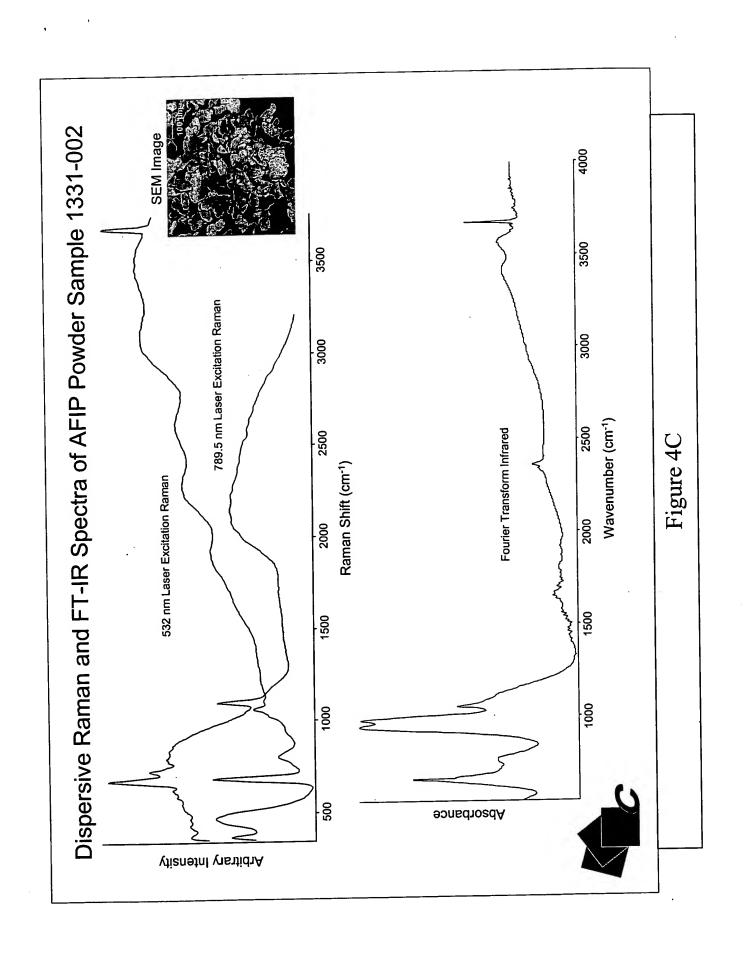
Figure 1

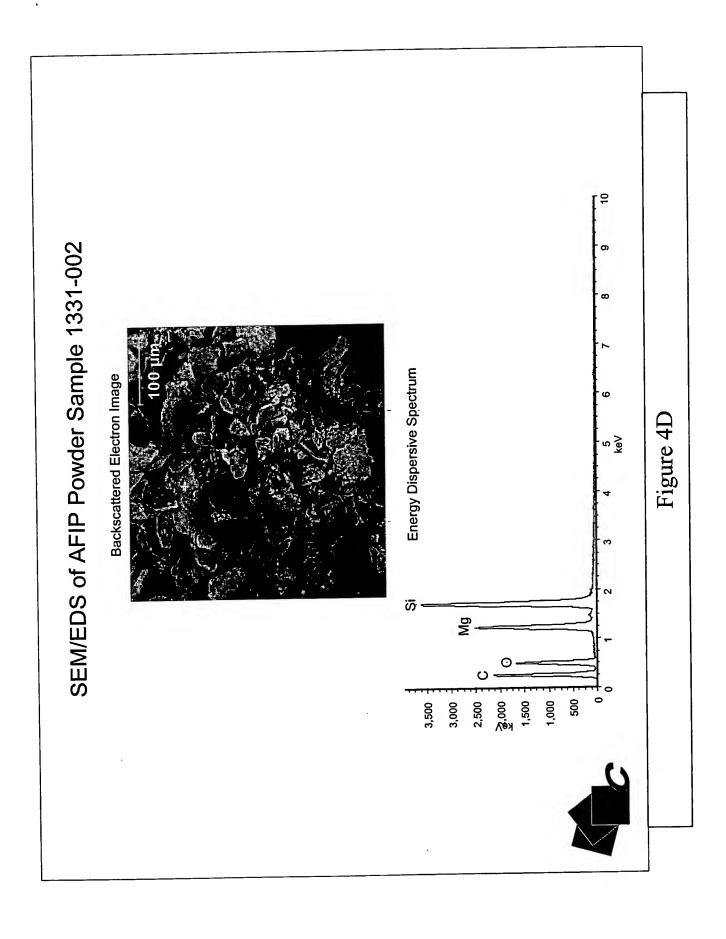


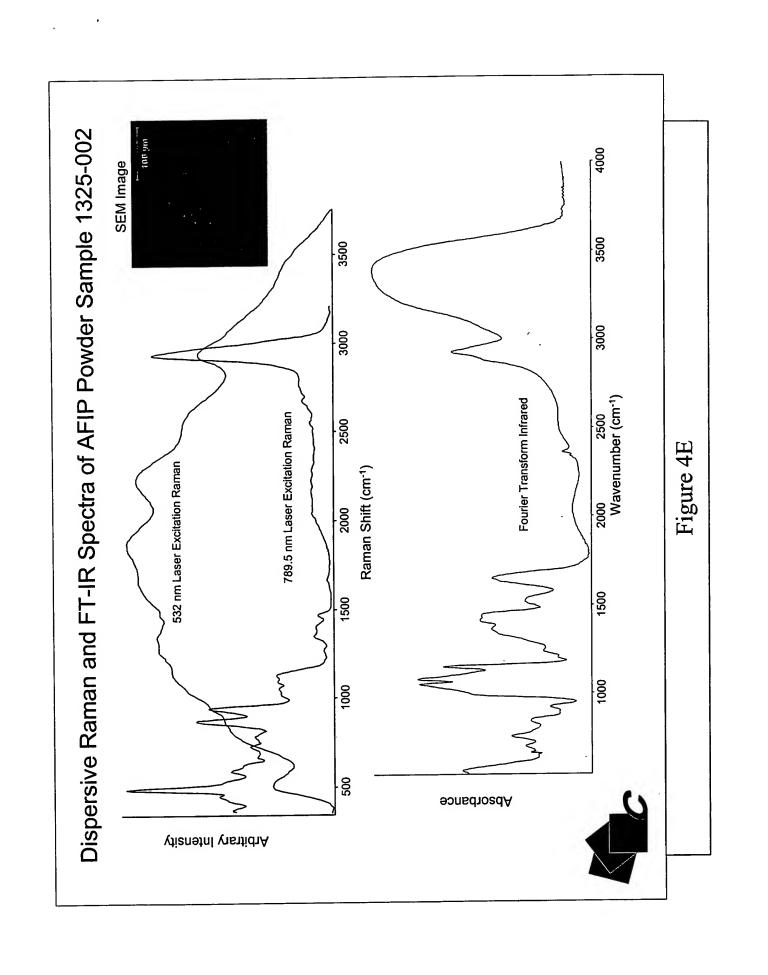


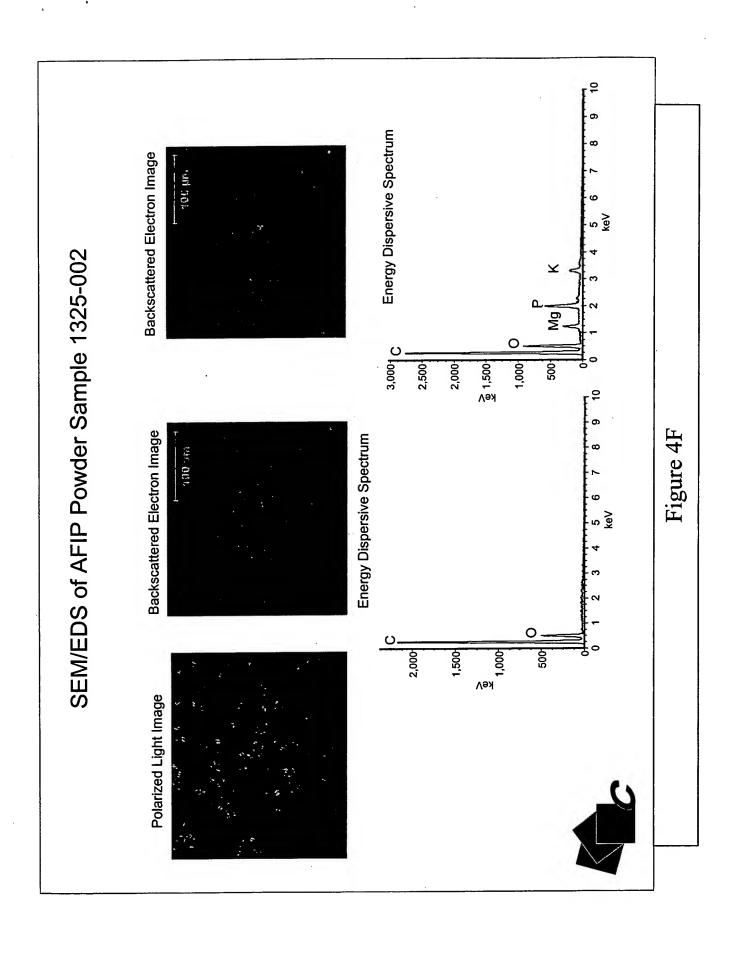


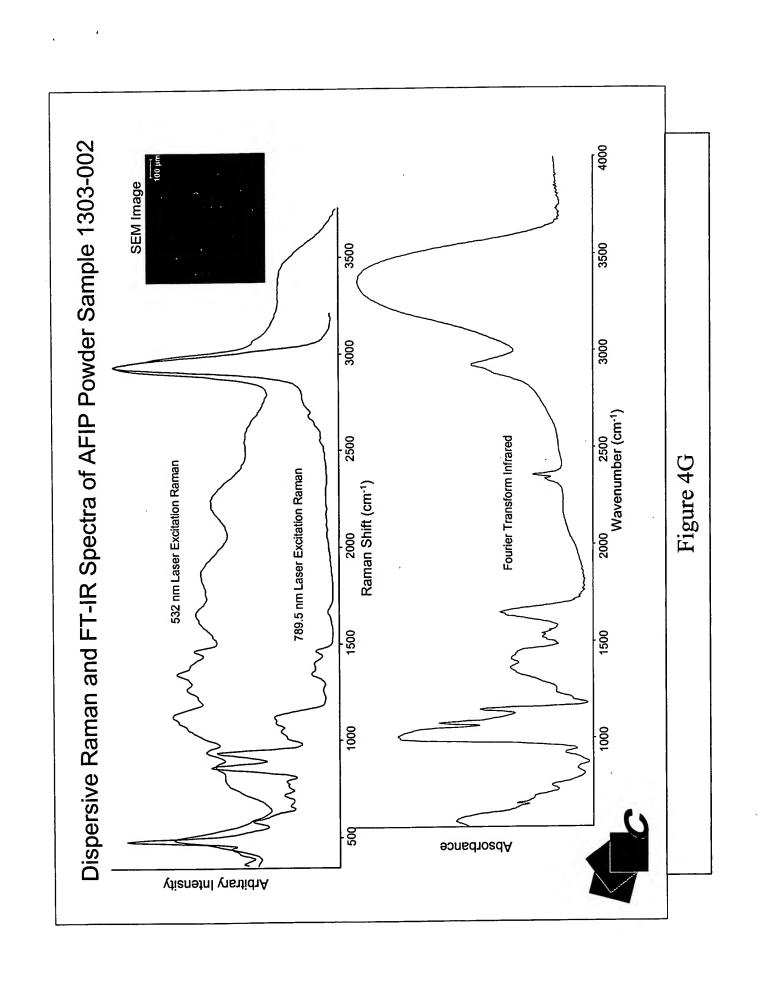


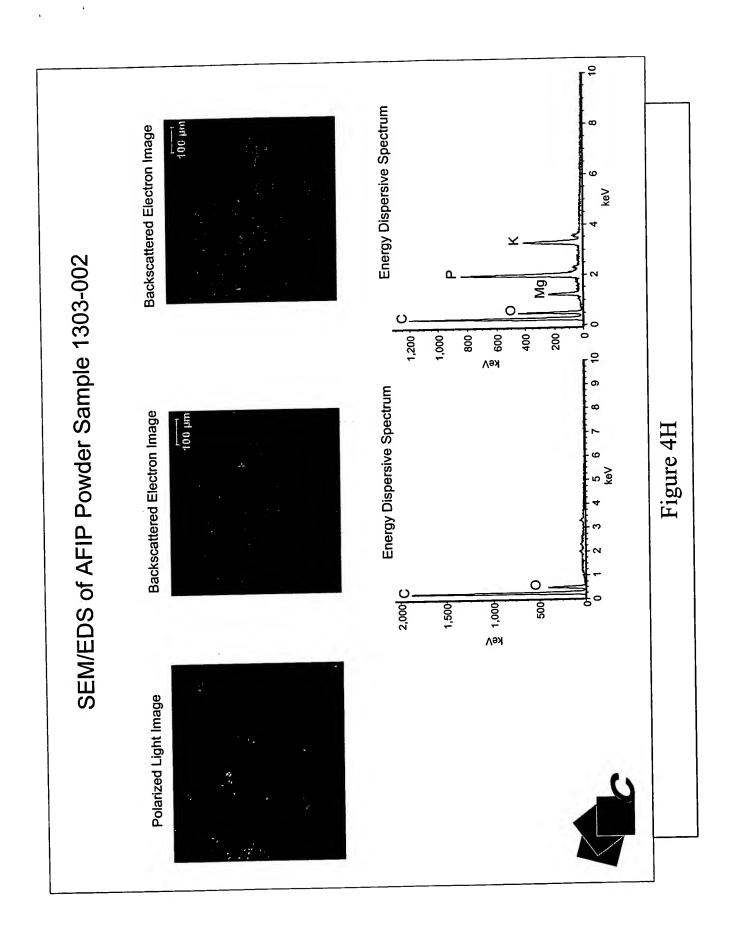


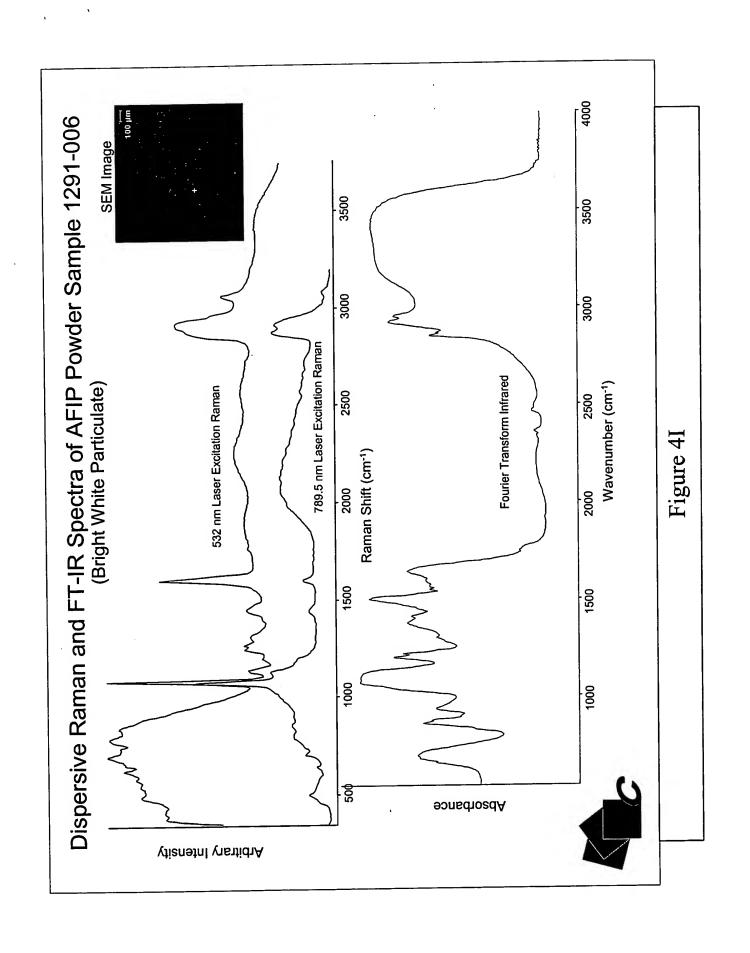


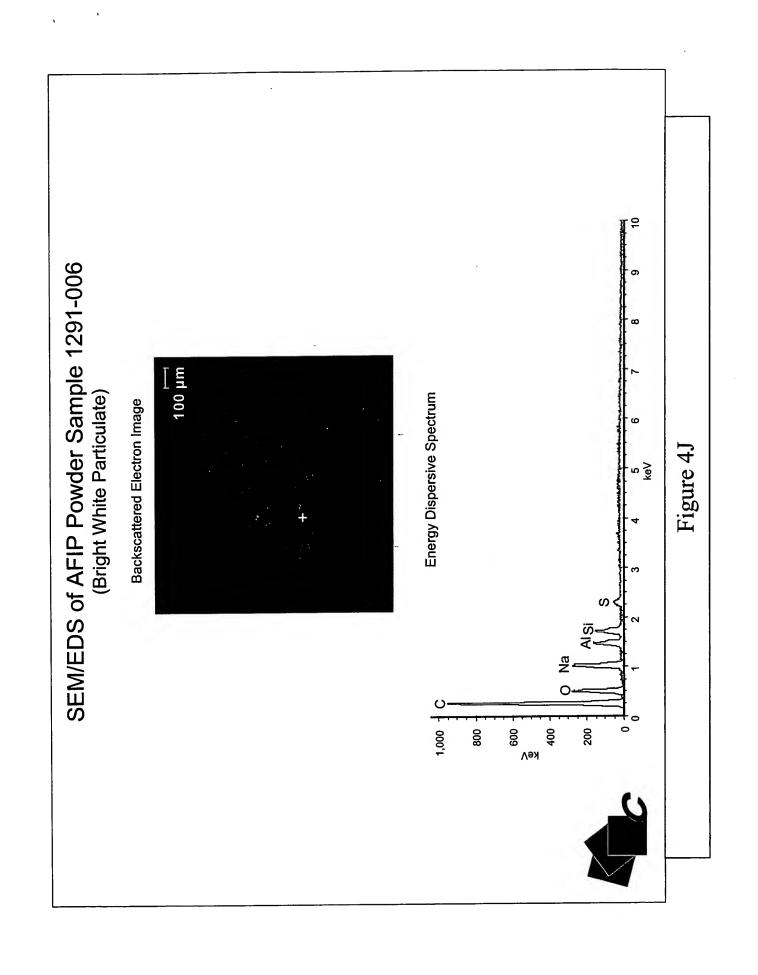


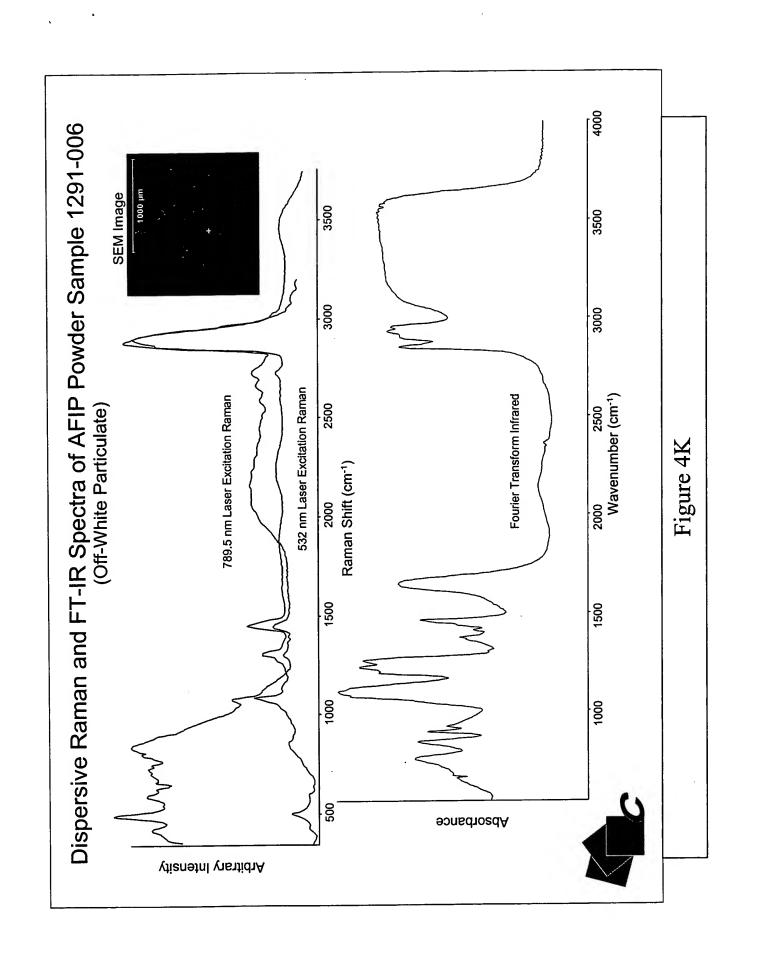


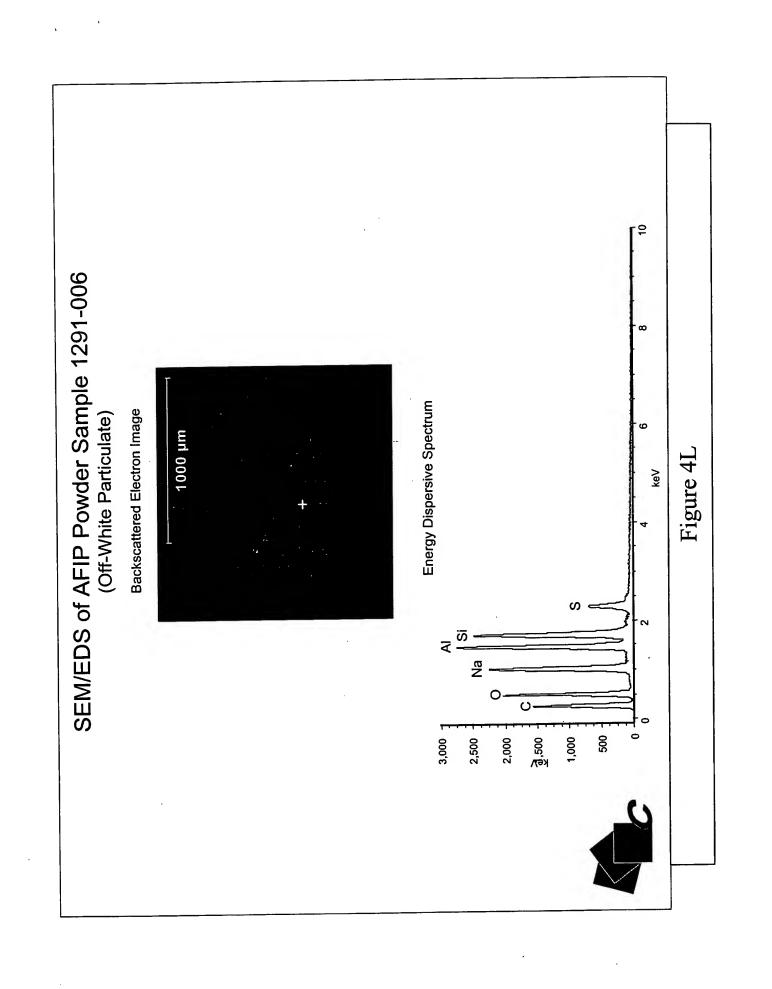


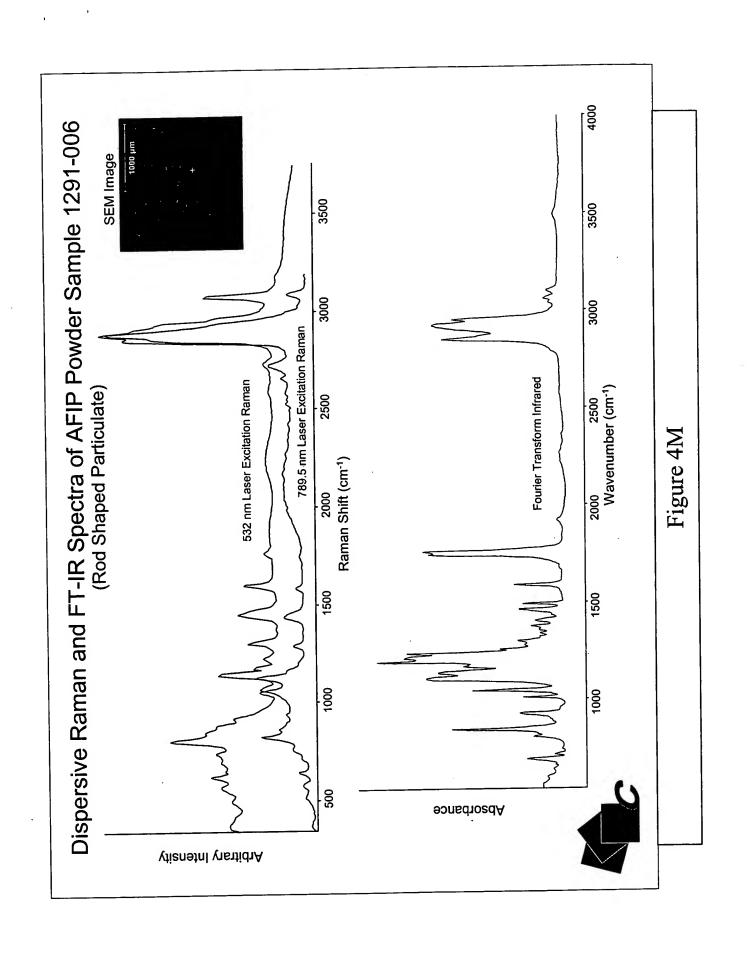


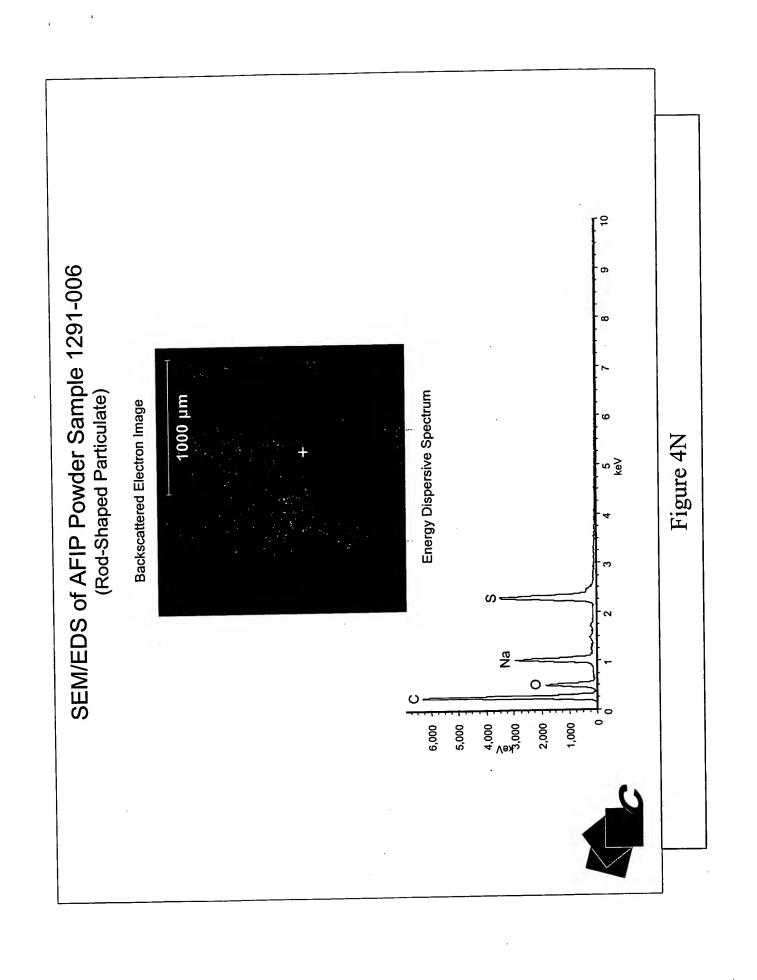


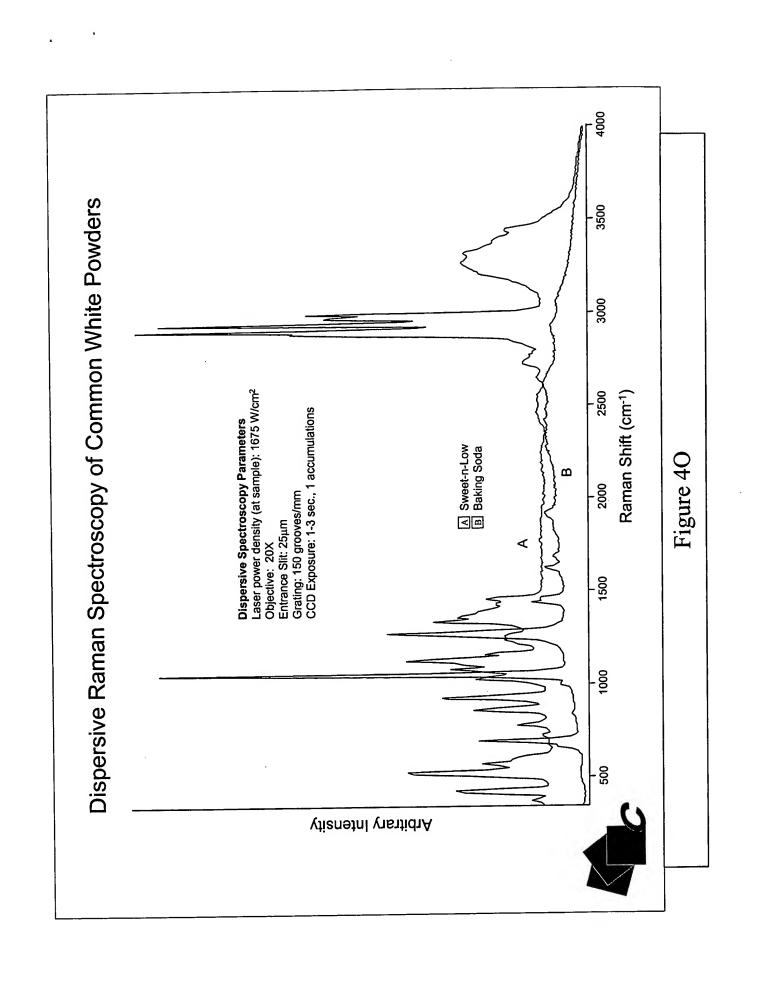


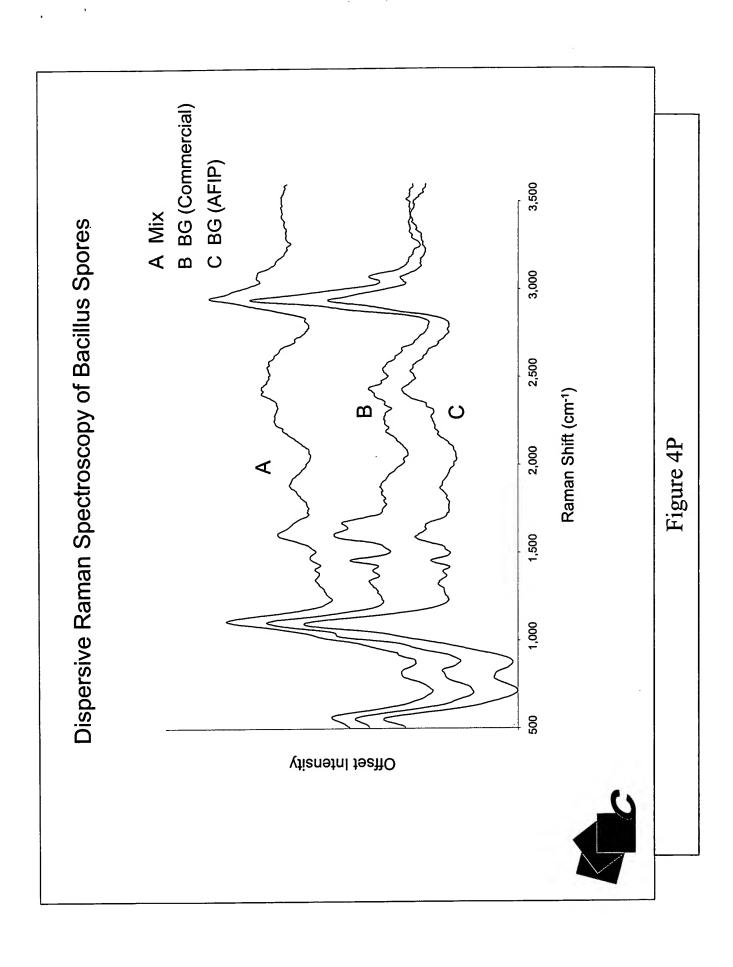


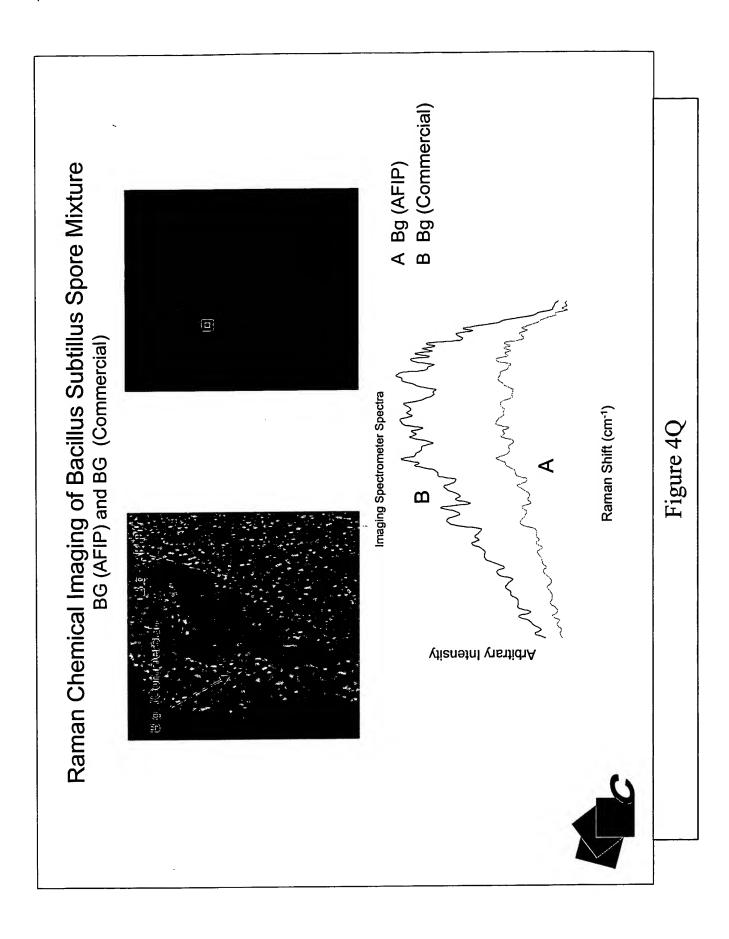


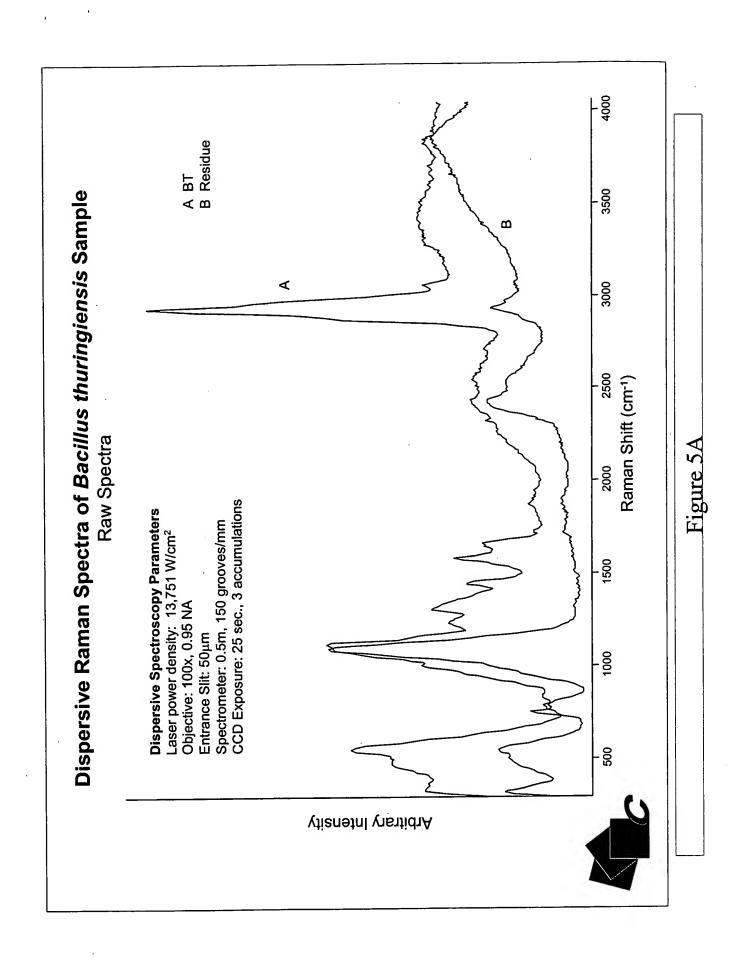


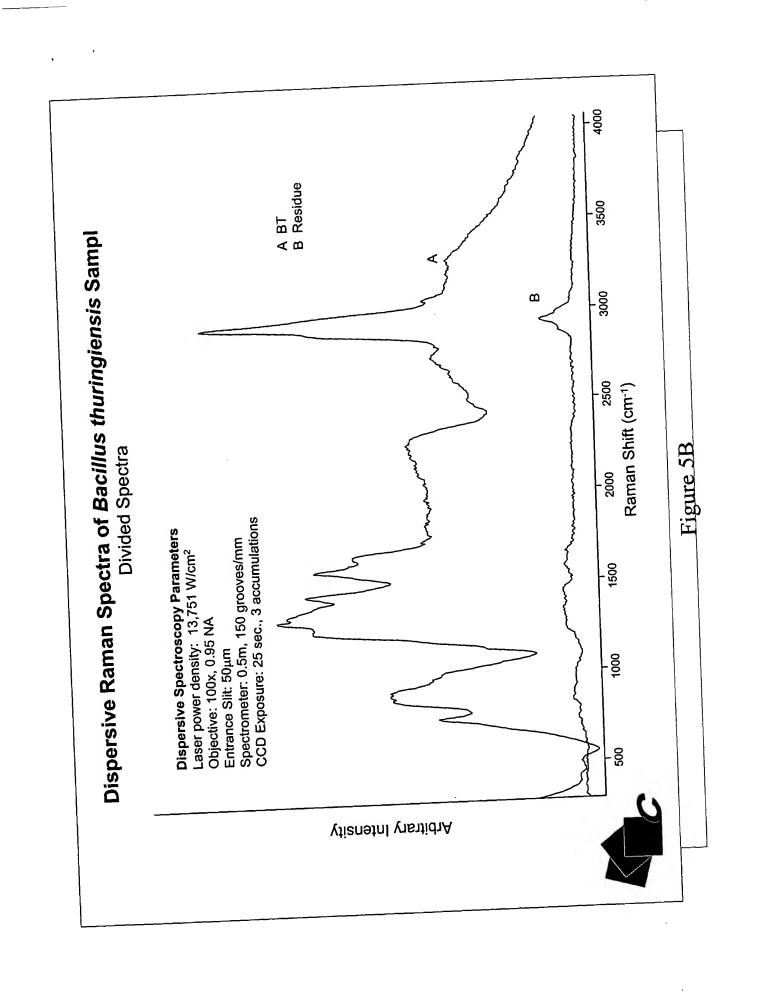


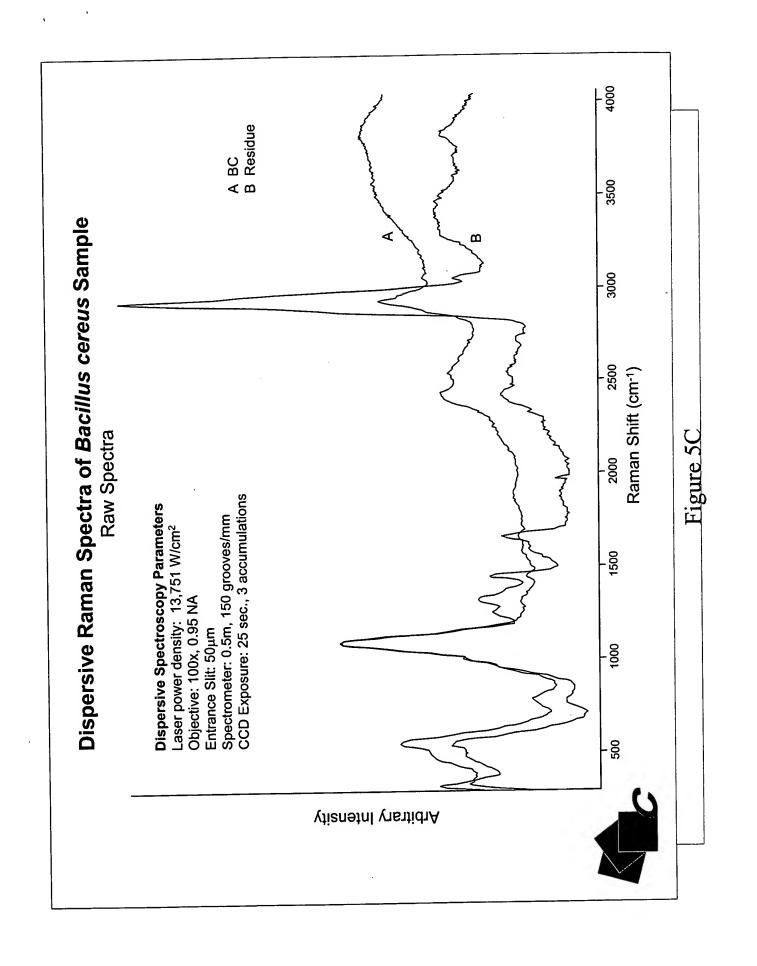


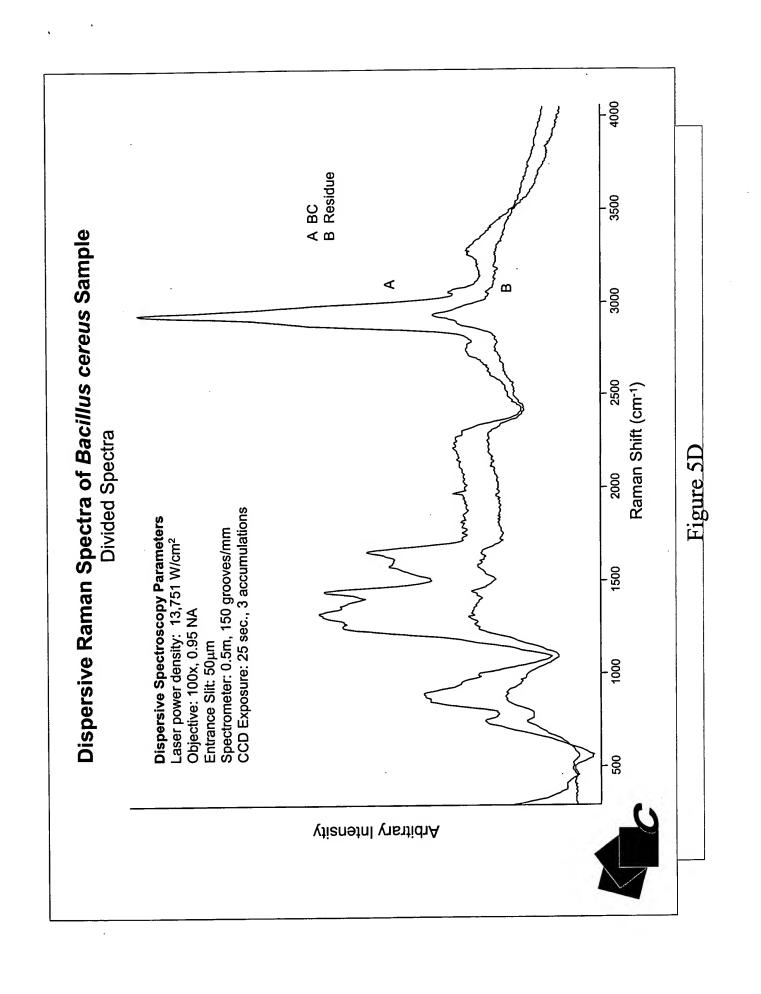


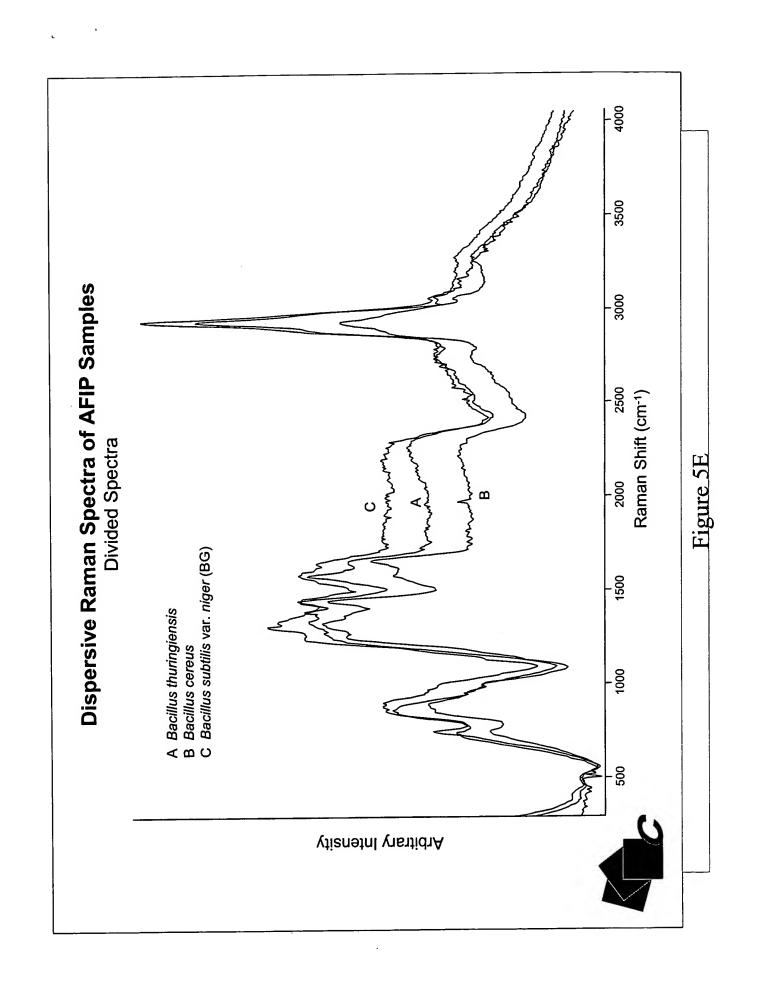


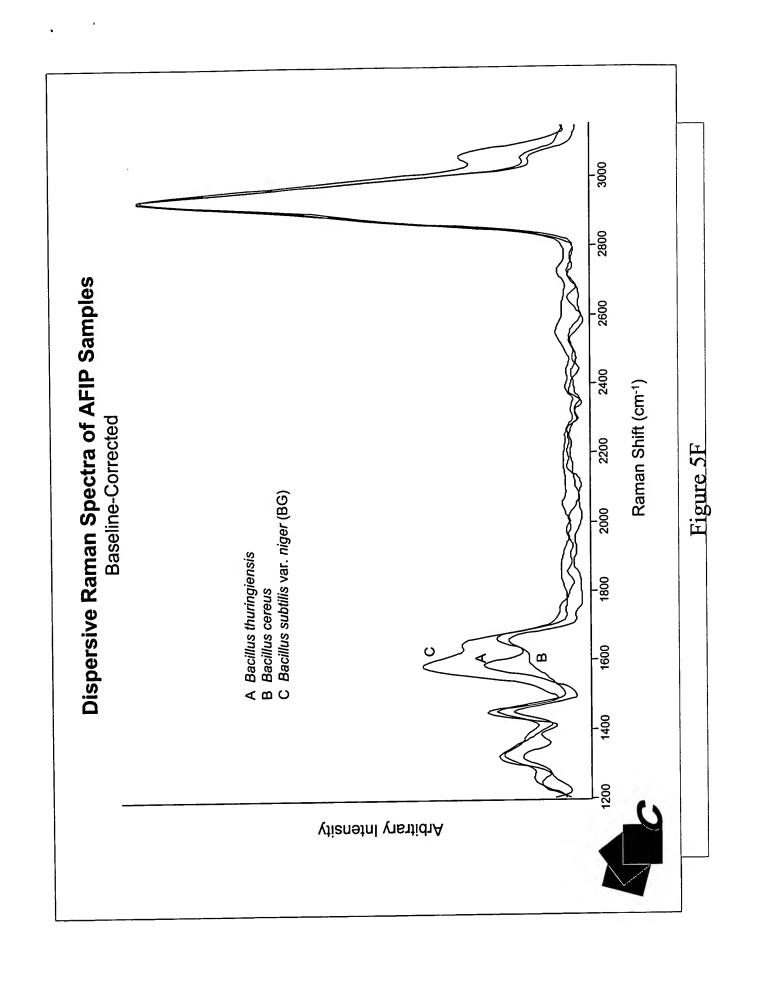


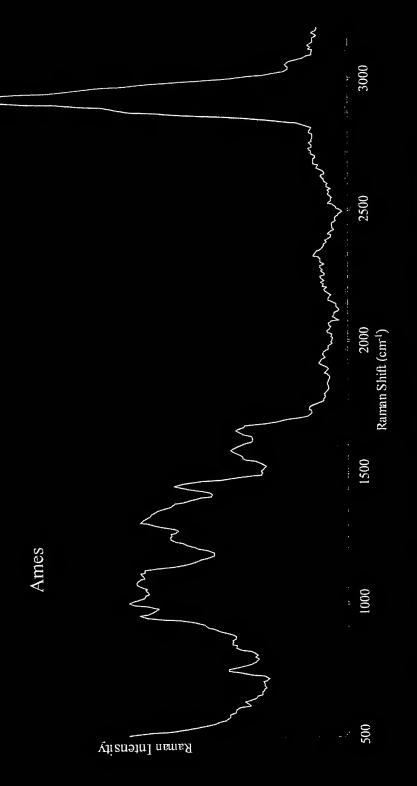




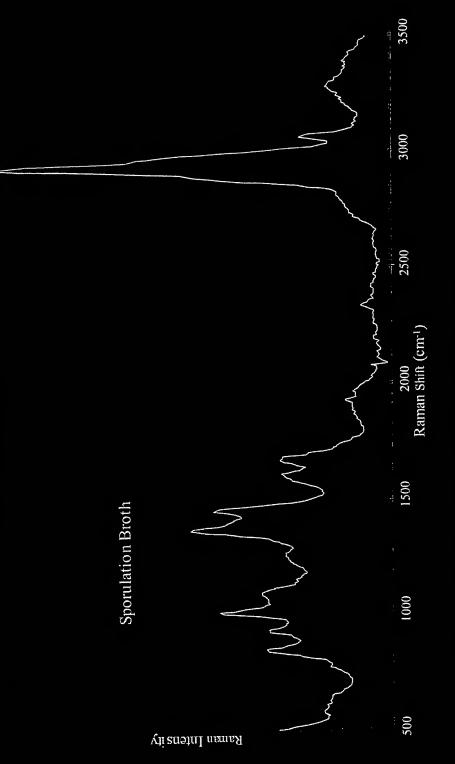








RCI can distinguish between multiple bacterial strains within a single species.

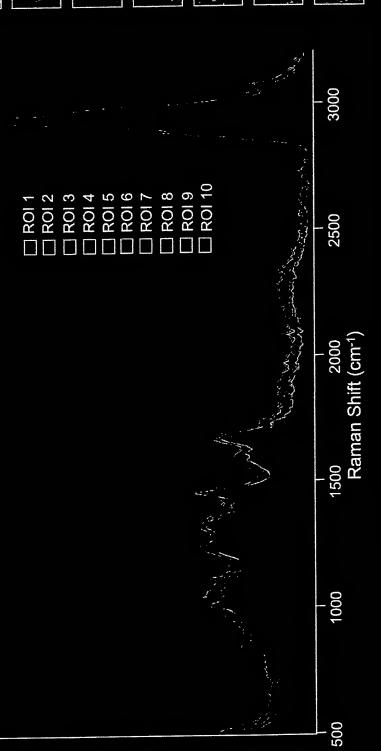


RCI can distinguish between different growth conditions.

Raman Spectra are reproducible

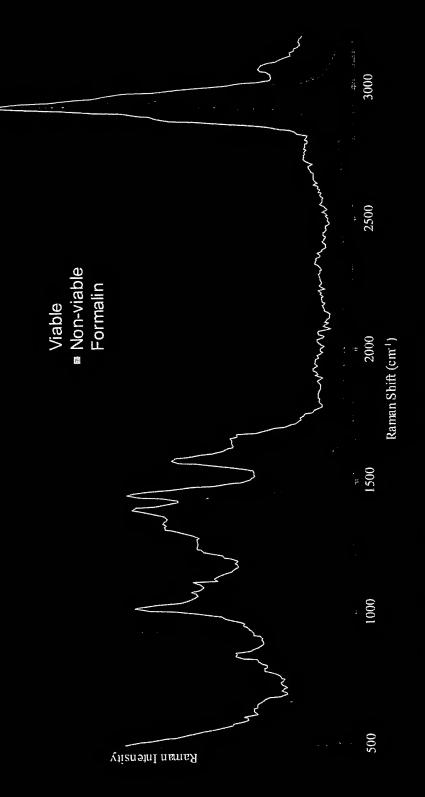
Dispersive Raman Spectroscopy – 10 Different Regions of Interest AFIP Samples - B. Anthracis in Sporulation Broth

- Statistical Analysis (F-Test) indicates reproducibility to 95% confidence level
- Collected with FALCON Raman Chemical Imaging Microscope
- Data Acquisition Time: 60 sec/spectrum

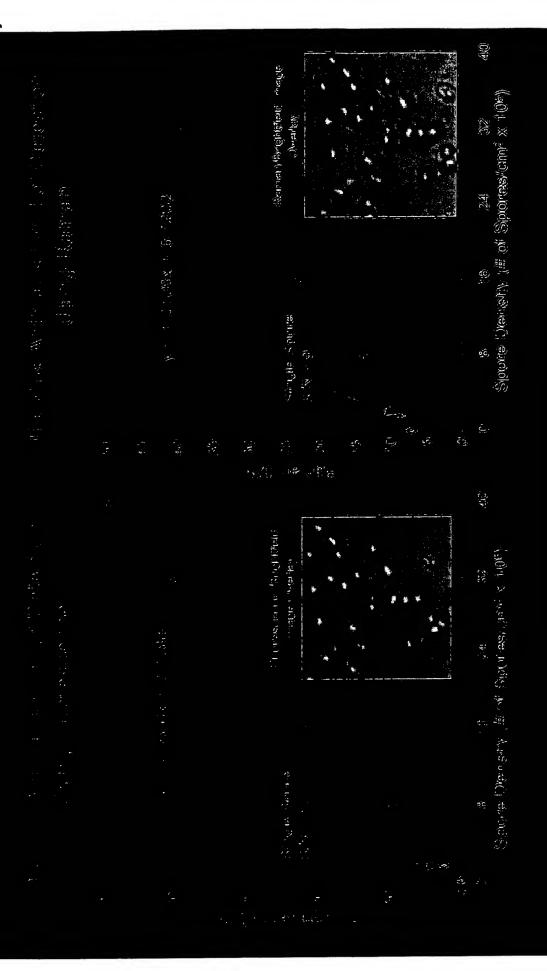


Intensity

FIGURE 8



RCI can distinguish between viable and non-viable spores



Preliminary Receiver Operator Characteristic (ROC) Curve Bacillus anthracis Discrimination Assessment

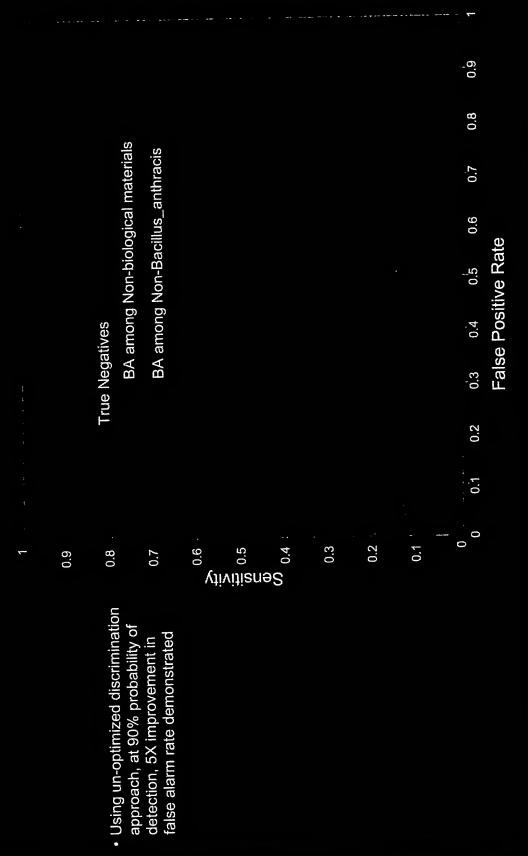
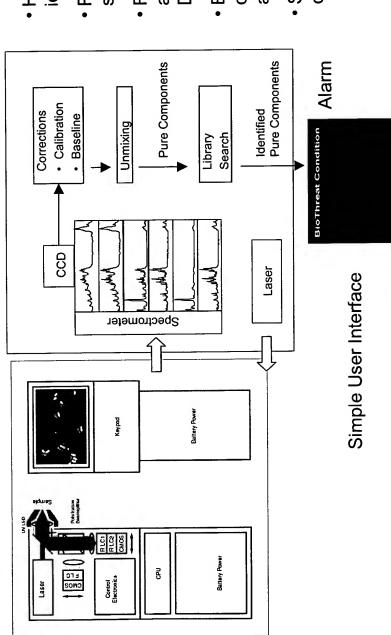


FIGURE 11

Handheld Pathogenic Microorganism Detector



Handheld detection and identification system

Reagentless point-detection system

 Fluorescence (screening) and Raman (diagnostic) Detection Capabilities Eye-safe, solar blind daytime operation through shielding at the probe tip

Suitable for assessment of complex mixtures

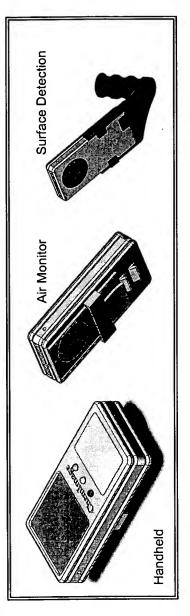


FIGURE 12

